

# PCT

## REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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|--|--|
| For receiving Office use only                                |  |
| <b>PCT/EP 2005 / 003888</b>                                  |  |
| International Application No.                                |  |
| (13.04.2005)   |  |
| International Filing Date                                    |  |
| 13 APR 2005  |  |
| EUROPEAN PATENT OFFICE                                       |  |
| <b>PCT INTERNATIONAL APPLICATION</b>                         |  |
| Name of receiving Office and "PCT International Application" |  |

Applicant's or agent's file reference  
(if desired) (12 characters maximum) C62387PC BÖ/smi

|  |  |
|--|--|
| <b>Box No. I TITLE OF INVENTION</b><br>Expression system for preparing IL-15/Fc fusion proteins and its use  |  |
| <b>Box No. II APPLICANT</b>  | <input type="checkbox"/> This person is also inventor  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)<br><br>F. Hoffmann-La Roche AG<br>Grenzacherstraße 124<br>4070 Basel<br>CH |  |
| <input type="checkbox"/> Telephone No.<br><br><input checked="" type="checkbox"/> Facsimile No.<br><br><input type="checkbox"/> Teleprinter No.<br><br><input type="checkbox"/> Applicant's registration No. with the Office   |  |
| State (that is, country) of nationality:<br>CH   | State (that is, country) of residence:<br>CH   |
| This person is applicant for the purposes of:<br><input type="checkbox"/> all designated States  | <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box |
| <b>Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>   |  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)<br><br>HERRMANN, Andreas<br>Löwenburgstraße 26<br>50939 Köln<br>DE         |  |
| <input type="checkbox"/> This person is:<br><br><input type="checkbox"/> applicant only<br><input checked="" type="checkbox"/> applicant and inventor<br><input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)<br><br><input type="checkbox"/> Applicant's registration No. with the Office  |  |
| State (that is, country) of nationality:<br>DE   | State (that is, country) of residence:<br>DE   |
| This person is applicant for the purposes of:<br><input type="checkbox"/> all designated States  | <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box |
| <input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.   |  |
| <b>Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>  |  |
| The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:<br><br><input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative   |  |
| Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)<br><br>BÖSL, Raphael<br>Isenbruck Bösl Hörschler Wichmann Huhn<br>Prinzregentenstraße 68<br>81675 München<br>DE   |  |
| <input type="checkbox"/> Telephone No.<br>089/99 88 54 - 0<br><br><input type="checkbox"/> Facsimile No.<br>089/99 88 54 - 99<br><br><input type="checkbox"/> Teleprinter No.<br><br><input type="checkbox"/> Agent's registration No. with the Office   |  |
| <input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.   |  |

## Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

DREHER, Ingeborg  
Gladbacher Straße 10  
40219 Düsseldorf  
DE

This person is:

- applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
DEState (that is, country) of residence:  
DE

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

MOLL, Thomas  
10832 Scripps Ranch Boulevard #308  
San Diego, CA 92131  
USA

This person is:

- applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
USState (that is, country) of residence:  
(DE) 4418 US

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

ZAHN, Stefanie  
Herbrüggenstraße 155  
45359 Essen  
DE

This person is:

- applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
DEState (that is, country) of residence:  
DE

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- applicant only  
 applicant and inventor  
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant  all designated States  all designated States except the United States of America  the United States of America only  the States indicated in the Supplemental Box

Further applicants and/or (further) inventors are indicated on another continuation sheet.

Role

**Box No. V DESIGNATIONS**

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- DE Germany is not designated for any kind of national protection
- KR Republic of Korea is not designated for any kind of national protection
- RU Russian Federation is not designated for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

| Filing date<br>of earlier application<br>(day/month/year) | Number<br>of earlier application | Where earlier application is:                        |  |  |
|---|----------------------------------|--|--|--|
|   |                                  | national application:<br>country or Member<br>of WTO | regional application:<br>regional Office | international application:<br>receiving Office |
| item (1)<br><u>14/04/2004</u><br><u>14/April/2004</u>     | 04008881.7                       |  | EP                                       |  |
| item (2)  |                                  |  |  |  |
| item (3)  |                                  |  |  |  |

- Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

- all items
- item (1)
- item (2)
- item (3)
- other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

**Choice of International Searching Authority (ISA)** (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA / EPO .....

**Request to use results of earlier search; reference to that search** (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)  
December 28, 2004 04008881.7-2401 EP

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

- |   |  |                        |
|---|--|------------------------|
| <input type="checkbox"/> Box No. VIII (i)   | Declaration as to the identity of the inventor   | Number of declarations |
| <input type="checkbox"/> Box No. VIII (ii)  | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent             |                        |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application |                        |
| <input type="checkbox"/> Box No. VIII (iv)  | Declaration of inventorship (only for the purposes of the designation of the United States of America)                               |                        |
| <input type="checkbox"/> Box No. VIII (v)   | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty   |                        |

**Box No. IX CHECK LIST; LANGUAGE OF FILING**

|   |  |  |                 |
|---|--|--|-----------------|
| This international application contains:  | This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):   |  | Number of items |
| (a) on paper, the following number of sheets:   |  |  |                 |
| request (including declaration sheets) : 4  | <input checked="" type="checkbox"/> fee calculation sheet  |  | : 1             |
| description (excluding sequence listing and/or tables related thereto) : 29   | <input type="checkbox"/> original separate power of attorney   |  | :               |
| claims : 3  | <input type="checkbox"/> original general power of attorney  |  | :               |
| abstract : 1  | <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any: .46811 .....  |  | : 1             |
| drawings : 9  | <input type="checkbox"/> statement explaining lack of signature  |  | :               |
| <b>Sub-total number of sheets</b> : 46  | <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s).....   |  | :               |
| sequence listing : 13   | <input type="checkbox"/> translation of international application into (language): .....   |  | :               |
| tables related thereto (for both, actual number of sheets if filed on paper, whether or not also filed in electronic form; see (c) below) : _____ | <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material  |  | :               |
| <b>Total number of sheets</b> : 59  | <input checked="" type="checkbox"/> sequence listing in electronic form (indicate type and number of carriers)   |  |                 |
| (b) <input type="checkbox"/> only in electronic form (Section 801(a)(i))  | (i) <input checked="" type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) : 1 Disc  |  |                 |
| (ii) <input type="checkbox"/> sequence listing  | (ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter               |  | :               |
| (iii) <input type="checkbox"/> tables related thereto   | (iii) <input checked="" type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column   |  | : 1             |
| (c) <input type="checkbox"/> also in electronic form (Section 801(a)(ii))   | 10. <input type="checkbox"/> tables in electronic form related to sequence listing (indicate type and number of carriers)  |  |                 |
| (i) <input type="checkbox"/> tables related thereto   | (i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application)  |  | :               |
| (ii) <input type="checkbox"/> sequence listing  | (ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) |  | :               |
| Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the  | (iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column  |  | :               |
| <input type="checkbox"/> sequence listing: .....  | 11. <input checked="" type="checkbox"/> other (specify): .Form 1010 .....  |  | : 1             |
| <input type="checkbox"/> tables related thereto: .....  |  |  |                 |
| (additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)  |  |  |                 |

Figure of the drawings which should accompany the abstract: Language of filing of the international application: English

**Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE**  
Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

Dr. Raphael Bösl  
European Patent Attorney

April 13, 2005

|   |   |  |
|---|---|--|
| For receiving Office use only   |   |  |
| 1. Date of actual receipt of the purported international application:   | 13 APR 2005 (13.04.05)  |  |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: | 2. Drawings:<br><input checked="" type="checkbox"/> received:<br><input type="checkbox"/> not received: |  |
| 4. Date of timely receipt of the required corrections under PCT Article 11(2):  |   |  |
| 5. International Searching Authority (if two or more are competent): ISA /  | 6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid                 |  |

For International Bureau use only

Date of receipt of the record copy by the International Bureau: